

WHAT IS CLAIMED IS:

1. A subassembly comprised of at least two machine parts including: an outer machine part having an internal circumferential surface and a cooperating inner machine part having an external circumferential surface wherein the internal circumferential surface, of the outer machine part and the external circumferential surface of the inner machine part are fastened one over the other by means of compression connection, the outer and inner machine parts being so positioned along an axis with respect to each other that they overlap and the dimensions of the inner and outer machine parts and respective materials thereof are selected such that the outer machine part is deformed into the plastic range of material strained.
2. The subassembly of claim 1, wherein the outer machine part comprises a tensioning roller including a running disk made of steel and the inner machine part comprises a raceway ring of a rolling bearing with an internal circumference on which the raceway is defined.
3. The subassembly of claim 2, wherein the wall thickness of the running disk is selected such that the contraction of the raceway ring corresponds to the level of contraction of the running disk at maximum overlap of the compression connection for elastic deformation of the outer machine part.
4. The subassembly of claim 1, wherein the wall thickness of the outer machine part is selected such that the contraction of the inner machine part corresponds to the level of contraction of the outer machine part at maximum overlap of the compression connection for elastic deformation of the outer machine part.

5. The subassembly of claim 3, wherein the external diameter of the raceway ring at the external circumferential surface is approximately 55 mm and the running disk has a thickness between the external circumferential surface thereof and the raceway of approximately 1.5 mm.

6. The subassembly of claim 4, wherein the inner machine part has an external diameter of approximately 55 mm and the outer machine part has a wall around the inner machine part with a thickness of approximately 1.5 mm.